# PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY	PCT
To: ITOH, Tadahiko 32nd Floor Yebisu Garden Place Tower 20-3, Ebisu 4-chome, Shibuya-ku Tokyo 150-6032 JAPAN	THE INTERNATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION (1975)
	(PCT Rule 44.1)
	Date of mailing (day/month/year) 16/12/2005
Applicant's or agent's file reference RO5054PCT	FOR FURTHER ACTION See paragraphs 1 and 4 below
International application No. PCT/JP2005/011487	International filing date (day/month/year) 16/06/2005
Applicant	
RICOH COMAPNY, LTD.	
Authority have been established and are transmitted herewi  Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claim When? The time limit for filing such amendments is non International Search Report.  Where? Directly to the International Bureau of WIPO, 34 1211 Geneva 20, Switzerland, Fa For more detailed instructions, see the notes on the acco  The applicant is hereby notified that no international search Article 17(2)(a) to that effect and the written opinion of the Ir  With regard to the protest against payment of (an) additionally the protest together with the decision thereon has bee applicant's request to forward the texts of both the promodecision has been made yet on the protest; the applicant should be application of 18 months from the priority date, the International Bureau. If the applicant wishes to avoid or postpone application, or of the priority claim, must reach the International Bureau. The International Bureau will send a copy of international Bureau. The International Bureau will send a copy of international preliminary examination report has been or is to be the public but not before the expiration of 30 months from the priority date, but only in respect of so examination must be filed if the applicant wishes to postpone the date (in some Offices even later); otherwise, the applicant must, acts for entry into the national phase before those designated Offices, the time limit of 30 months.	ins of the International Application (see Rule 46): Imally two months from the date of transmittal of the Inchemin des Colombettes Inchemin des Colombettes Inscimile No.: (41–22) 338.82.70 Impanying sheet. In report will be established and that the declaration under International Searching Authority are transmitted herewith. In transmitted to the International Bureau together with the International section thereon to the designated Offices. Inclicant will be notified as soon as a decision is made.  In transmitted to the International Bureau together with the International application will be published by the Inpublication, a notice of withdrawal of the international International application will be published by the Inpublication, a notice of withdrawal of the international International application will be published by the Inpublication, a notice of withdrawal of the international International application will be published by the Inpublication, a notice of withdrawal of the international International application will be published by the International applica
months.  See the Annex to Form PCT/IB/301 and, for details about the application of the control	plicable time limits, Office by Office, see the PCT Applicant's

European Patent Office, P.B. 5818 Patentlaan 2

NL-2280 HV Rijswijk

Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Dana Schalinatus

Authorized officer

#### **NOTES TO FORM PCT/ISA/220**

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

#### INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international polication. Furthermore, it should be emphasized that provisional protection is available in some States only.

#### What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

#### When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

#### Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been is filed, see below.

#### How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

#### What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

#### NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

# The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
   "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers;
   claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]:
   "Claims 1 to 15 replaced by amended claims 1 to 11."
- [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
   "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
   "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]: "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

#### "Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

#### It must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

#### Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

#### Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

Notes to Form PCT/ISA/220 (second sheet) (January 1994)

## PATENT COOPERATION TREATY

# **PCT**

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER	see Form PCT/ISA/220
RO5054PCT	ACTION	as well as, where applicable, item 5 below.
International application No.	International filing date (day/mont	h/year) (Earliest) Priority Date (day/month/year)
PCT/JP2005/011487	16/06/2005	17/06/2004
Applicant		
RICOH COMAPNY, LTD.		
This International Search Report has bee according to Article 18. A copy is being tr	n prepared by this International Sea ansmitted to the International Burea	rching Authority and is transmitted to the applicant u.
This International Search Report consists		
X It is also accompanied by	a copy of each prior art document	Great III tills report
Basis of the report     a. With regard to the language, the language in which it was filed, un	international search was carried ou less otherwise indicated under this	t on the basis of the international application in the item.
The international this Authority (Ru	search was carried out on the basis	s of a translation of the international application furnished to
b. With regard to any nucle	otide and/or amino acid sequenc	e disclosed in the international application, see Box No. I.
2. Certain claims were for	and unsearchable (See Box II).	
3. Unity of invention is lac	king (see Box III).	
4. With regard to the <b>title</b> ,		•
X the text is approved as s	ubmitted by the applicant.	
	shed by this Authority to read as foll	lows:
		•
		·
5. With regard to the abstract,		
X the text is approved as s	submitted by the applicant.	
the text has been establi	shed, according to Rule 38.2(b), by	this Authority as it appears in Box No. IV. The applicant
may, within one month fi	om the date of mailing of this intern	ational search report, submit comments to this Authority.
6. With regard to the drawings,		001
a. the figure of the drawings to be	published with the abstract is Figure	e No20b
as suggested by		
	his Authority, because the applicant	
as selected by the	his Authority, because this figure be	tter characterizes the invention.
b. none of the figures is to	be published with the abstract.	

#### INTERNATIONAL SEARCH REPORT

International Application No PCT/JP2005/011487

A. CLASSIFICATION OF SUBJECT MATTER G11B20/12 G11B27/32

G11B7/007

G11B19/12

According to International Patent Classification (IPC) or to both national classification and IPC

#### B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

G11B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUM	ENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P,X	EP 1 492 117 A (SONY CORPORATION) 29 December 2004 (2004-12-29) abstract paragraphs '0001! - '0017! paragraphs '0030! - '0113! figures 3-9	1,4,12, 17,37,38
<b>X</b> *	WO 03/105141 A (LG ELECTRONICS INC; SUH, SANG WOON) 18 December 2003 (2003-12-18) the whole document	1,4,12, 17,37,38
Α	EP 0 715 301 A (SONY CORPORATION) 5 June 1996 (1996-06-05) abstract column 8, line 50 - column 9, line 1 figure 13	1,4,12, 17,37,38

Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
Special categories of cited documents:      A* document defining the general state of the art which is not considered to be of particular relevance      E* earlier document but published on or after the international filing date      L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)      O* document referring to an oral disclosure, use, exhibition or other means      P* document published prior to the international filing date but later than the priority date claimed	<ul> <li>"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</li> <li>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</li> <li>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.</li> <li>"&amp;" document member of the same patent family</li> </ul>
Date of the actual completion of the international search  10 August 2005	Date of mailing of the international search report $16/12/2005$
Name and mailing address of the ISA  European Patent Office, P.B. 5818 Patentlaan 2  NL - 2280 HV Rijswijk  Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  Fax: (+31-70) 340-3016	Authorized officer  Sucher, R

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## INTERNATIONAL SEARCH REPORT

International Application No PCT/JP2005/011487

	OCUMENTS CONSIDERED TO BE RELEVANT		
Category ° Citation	of document, with indication, where appropriate, of the relevant passages	F	Relevant to claim No.
ab co co	5 966 721 A (HIRAYAMA ET AL) October 1999 (1999-10-12) stract lumn 1, lines 5-48 lumn 3, line 29 - column 4, line 3 gures 2-4		1,4,12, 17,37,38

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## INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/JP2005/011487

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